

IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)  
In Orbit - Postgraduate Space Education (4)

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GRADUATE AEROSPACE PROGRAM BY UNAM BASED ON MEXICO'S NEEDS.

**Abstract**

National University Autonomous of México (UNAM) has been a key pioneer in fostering the space sector in Mexico since 1962. In 2003 aerospace activities had emerged within Mexico starting a new era of opportunities. The actual needs from different sectors: industrial, social, and educative required high qualified professionals from different levels. In 2017, only 4 undergraduate programs on aerospace engineering were available. Additionally, other programs related to aeronautics engineering at the technical and professional level are offered. At the graduate level, there are 10 programs related to remote sensing, aircraft, space sciences, and space systems. However, research areas related to EMC, Hil Sil, and environmental tests, only to mention a few, are not considered by these graduate programs. The UNAMs graduate program also considers a strong link with the industry in the State of Querétaro to foster joint ventures through the National Laboratory of Space and Automotive Engineering that is hosted at the UNAM School of Engineering- Advanced Technology Unit (UAT). This work presents a novel graduate program developed by UNAM based on Mexico's social and industrial needs. First, the academic and industrial market Mexico market is described. Second, the graduate program is presented and compared with other programs available in Mexico. Third, core research areas are described. Finally, conclusions are presented.